

CLAIMS

1. A method of transmitting an image from a remote server to a portable device and dynamically viewing, by a human observer, the transmitted image
5 on a display of the portable device, comprising:
- a) processing, on the remote server, a master set of data representative of a graphic image to form a first subset of data representative of a portion of the graphic image;
 - b) transmitting the first subset of data to the portable device;
 - 10 c) rendering, on the display of the portable device, a first image created from the transmitted first subset of data;
 - d) selecting, by the observer, a portion of said rendered first image, to be further expanded;
 - e) sending a request indicative of said selected portion, from the
15 portable device to the remote server;
 - f) on the remote server, fulfilling said request and processing said master set of data to form a second subset of data representative of said selected portion of said first image;
 - g) transmitting the second subset of data to the portable device; and
 - 20 h) rendering, on the display of the portable device, a second image created from the transmitted second subset of data.

FOIA b 7 - D

2. The method of transmitting an image from a remote server to a portable device as described in claim 1, further comprising the steps of:
- i) selecting, by the observer, a portion of said rendered second
 - 5 image, to be further expanded;
 - j) sending a request indicative of said selected portion of the second image, from the portable device to the remote server;
 - k) on the remote server, fulfilling said request and processing said master set of data to form a third subset of data representative of said
 - 10 selected portion of said second image;
 - l) transmitting the third subset of data to the portable device; and
 - m) entering, on the display of the portable device, a third image created from the transmitted third subset of data.
- 15 3. The method of transmitting an image from a remote server to a portable device as described in claim 1, wherein the first subset of data is smaller than the master set of data.
4. The method of transmitting an image from a remote server to a
- 20 portable device as described in claim 1, wherein the second subset of data is smaller than the master subset of data.
5. The method of transmitting an image from a remote server to a portable device as described in claim 2, wherein the third subset of data is
- 25 smaller than the master subset of data.
6. The method of transmitting an image from a remote server to a portable device as described in claim 1, wherein the remote server is a part of the internet.

7. A method of transmitting an image from a remote server to a wireless portable device and dynamically viewing, by a human observer, the transmitted image on a display of the wireless portable device, comprising:

- a) processing, on the remote server, a master set of data
5 representative of a graphic image to form a first subset of data representative of a portion of the graphic image;
- b) transmitting the first subset of data to the wireless portable device;
- c) rendering, on the display of the wireless portable device, a first image created from the transmitted first subset of data;
- 10 d) selecting, by the observer, a portion of said rendered first image, to be further expanded;
- e) sending a request indicative of said selected portion, from the wireless portable device to the remote server;
- f) on the remote server, fulfilling said request and processing said
15 master set of data to form a second subset of data representative of said selected portion of said first image;
- g) transmitting the second subset of data to the wireless portable device; and
- h) rendering, on the display of the wireless portable device, a second
20 image created from the transmitted second subset of data.

8. The method of transmitting an image from a remote server to a wireless portable device as described in claim 1, further comprising the steps of:

- 25 i) selecting, by the observer, a portion of said rendered second image, to be further expanded;
- j) sending a request indicative of said selected portion of the second image, from the wireless portable device to the remote server;
- k) on the remote server, fulfilling said request and processing said
30 master set of data to form a third subset of data representative of said selected portion of said second image;

l) transmitting the third subset of data to the wireless portable device; and

m) rendering, on the display of the wireless portable device, a third image created from the transmitted third subset of data.

5

9. The method of transmitting an image from a remote server to a portable device as described in claim 7, wherein the first subset of data is smaller than the master set of data.

10 10. The method of transmitting an image from a remote server to a portable device as described in claim 7, wherein the second subset of data is smaller than the master subset of data.

11. The method of transmitting an image from a remote server to a
15 portable device as described in claim 8, wherein the third subset of data is smaller than the master subset of data.

12. The method of transmitting an image from a remote server to a
portable device as described in claim 7, wherein the remote server is a part of
20 the internet.

13. A method of transmitting an image from a remote server to a wireless portable device and dynamically viewing, by a human observer, the transmitted image on a display of the wireless portable device, comprising:
- 5 a) transmitting a graphic image from the remote server to the wireless portable device, and transmitting additional data representative of portions immediately surrounding the borders of the graphic image;
 - b) rendering the graphic image on the display of the wireless portable device, and retaining said transmitted additional data in a cache in the wireless portable device;
 - 10 c) panning, by the observer, the displayed image in a direction;
 - d) rendering a new version of the displayed image representative of the panned direction, using the cached data;
 - e) sending a request indicative of said panned direction, from the portable device to the remote server; and
 - 15 f) on the remote server, fulfilling said request and transmitting additional data representative of portions immediately surrounding the borders of said new version of the graphic image.
14. The method of transmitting an image from a remote server to a portable device as described in claim 13, wherein a predictive algorithm estimates the direction the observer will make additional panning, based on the direction of previous panning.
- 20

15. A method of transmitting images from a remote server to a wireless portable device and dynamically viewing, by a human observer, the transmitted images on a display of the wireless portable device, comprising:

- 5 a) transmitting a plurality of graphic images having a first resolution, from the remote server to the wireless portable device;
- b) processing, on the wireless portable device, the transmitted images to create a corresponding plurality of thumbnail images at a second resolution, said second resolution being lower than said first resolution;
- 10 c) rendering the plurality of transmitted graphic images on the display of the wireless portable device in thumbnail format;
- d) selecting, by the observer, one of the plurality of rendered graphic images for further magnification; and
- 15 e) rendering the selected image on the display of the wireless portable device at the first resolution.

16. A method of transmitting an image from a remote server to a wireless portable device and dynamically viewing, by a human observer, the transmitted image on a display of the wireless portable device, comprising:

- 5 a) transmitting a plurality of graphic images in thumbnail format, from the remote server to the wireless portable device;
- b) rendering the plurality of transmitted graphic images on the display of the wireless portable device;
- c) transmitting a graphic image representative of each of the thumbnail images to the wireless portable device, said representative image
10 being of larger magnification than the thumbnail image;
- d) retaining the transmitted larger magnification image in memory on the device;
- e) selecting, by the observer, one of the rendered thumbnail graphic images for further magnification; and
15 e) rendering, from the image in memory on the device, the selected image on the display of the wireless portable device.